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INTRODUCTION

SN67d03 Series is a 3 seconds one-channel single chip voice synthesizer IC which contains a PWM Direct Drive Circuit. There are two IO pins (one input, one IO), which can be configured as two trigger pins, or one trigger and one output. By filling a coding form, users' applications, including section combination, trigger modes, and different output status, can be easily implemented.

FEATURES

- Single power supply 2.4V – 5.1V
- 3 seconds voice capacity is provided
- 1-bit input port (P1) and 1-bit I/O port (P2) are provided
- 16*1 bits RAM are provided
- Built in a high quality speech synthesizer
- Two different playing rate, 6KHz and 8KHz.
- Built in a PWM Direct Drive circuit output BUO1 and BUO2 directly connected to Speaker for sound output
- System clock: 2MHZ
- Low Voltage Reset

PIN ASSIGNMENT

Symbol	I/O	Function Description
P1	I	Input port
P2	I/O	I/O port
VDD	I	Positive power supply
OSC	I	Oscillation component connection pin
GND	I	Negative power supply
BUO1	O	PWM output 1
BUO2	O	PWM output 2

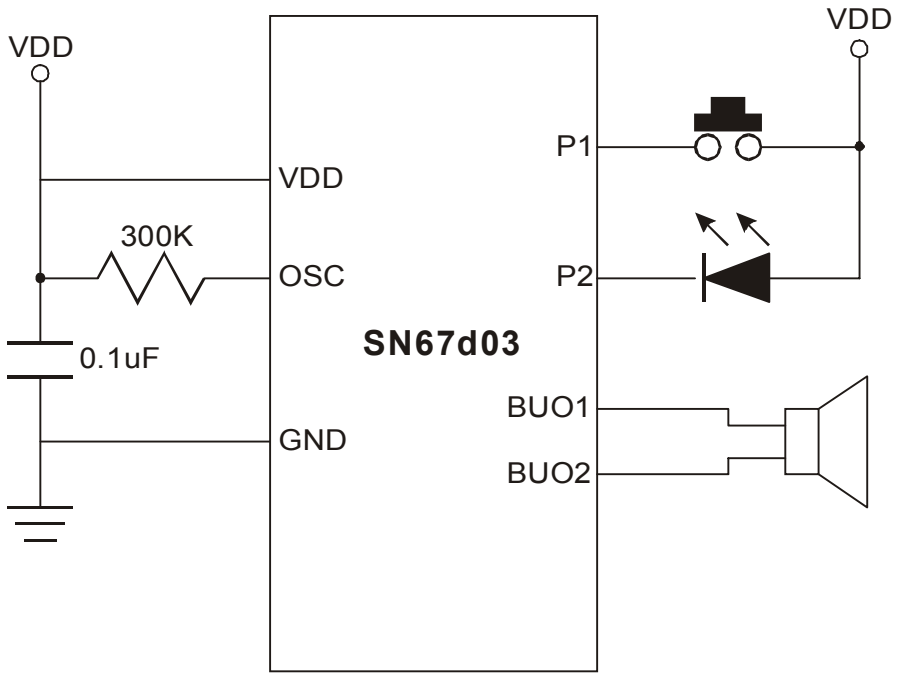
■ ABSOLUTE MAXIMUM RATINGS

Items	Symbol	Min	Max	Unit.
Supply Voltage	V_{DD}-V	-0.3	6.0	V
Input Voltage	V_{IN}	GND-0.3	V_{DD}+0.3	V
Operating Temperature	T_{OP}	-20.0	70.0	°C
Storage Temperature	T_{STG}	-55.0	125.0	°C

■ ELECTRICAL CHARACTERISTICS

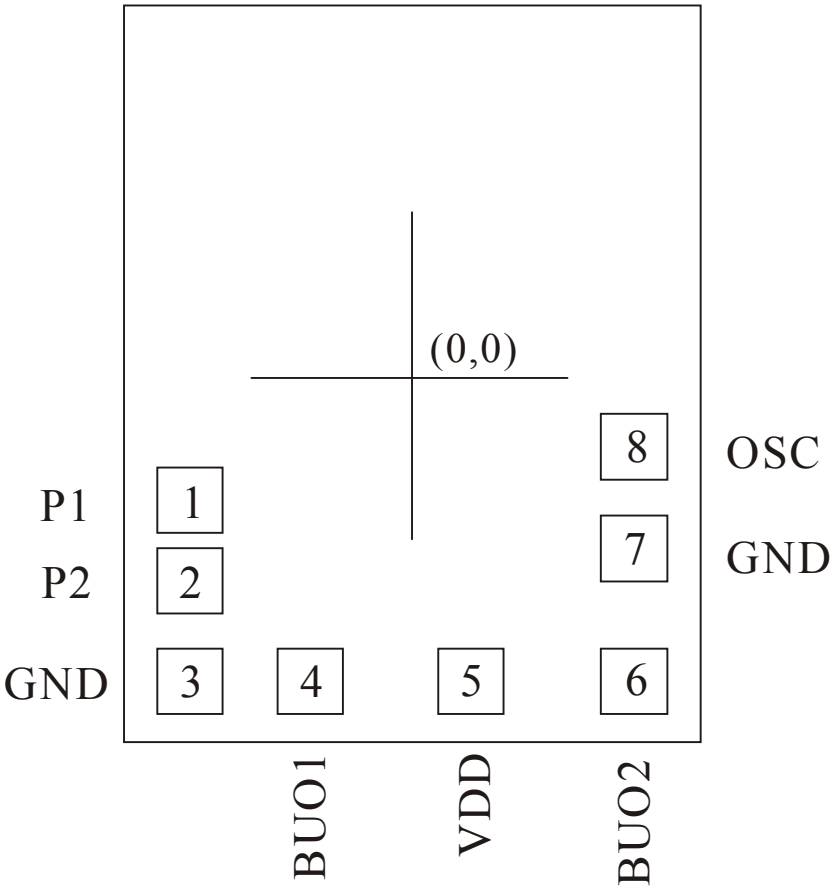
Item	Sym.	Min.	Typ.	Max.	Unit	Condition
Operating Voltage	V_{DD}	2.4	3.0	5.1	V	
Standby current	I_{SBY}	-	-	2.0	*u*A	V_{DD}=3V, no load
Operating Current	I_{OPR}	-	-	250	*u*A	V_{DD}=3V, no load
Input current of P1, P2	I_{IH}	-	3.0	10.0	*u*A	V_{DD}=3V,V_{IN}=3V
Drive current of P2	I_{OD}	1.5	2	-	*m*A	V_{DD}=3V,V_O=2.4V
Sink Current of P2	I_{OS}	2.0	3	-	*m*A	V_{DD}=3V,V_O=0.4V
Drive current of Buo1	I_{OD}	100	120	-	*m*A	VDD=3V,Buo1=1.5V
Sink Current of Buo1	I_{OS}	100	120	-	*m*A	VDD=3V,Buo1=1.5V
Drive Current of Buo2	I_{OD}	100	120	-	*m*A	VDD=3V,Buo2=1.5V
Sink Current of Buo2	I_{OS}	100	120	-	*m*A	VDD=3V,Buo2=1.5V
Oscillation Freq.	F_{OSC}	-	2.0	-	MHz	V_{DD}=3V

■ APPLICATION CIRCUIT



Note: Please bond all of V_{DD} and V_{SS} pins.

■ BONDING PAD



SN67d03

Note: The substrate MUST be connected to Vss in PCB layout.

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